

FIG. 1 is a block diagram of a network architecture 100. The network architecture 100 includes a network computer 106a and a network 108. The network computer 106a includes a 802.3 protocol layer 112 and a 802.11 protocol layer 114. The network 108 includes a 802.3 layer 130, an IP layer 132, a TCP layer 134, and an application layer 136. The network 108 is connected to the network computer 106a via a connection 102.

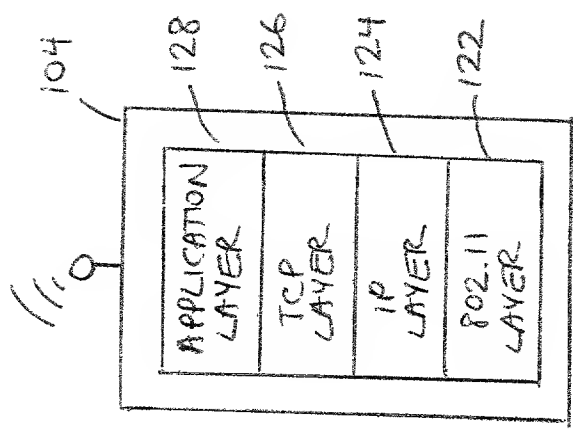
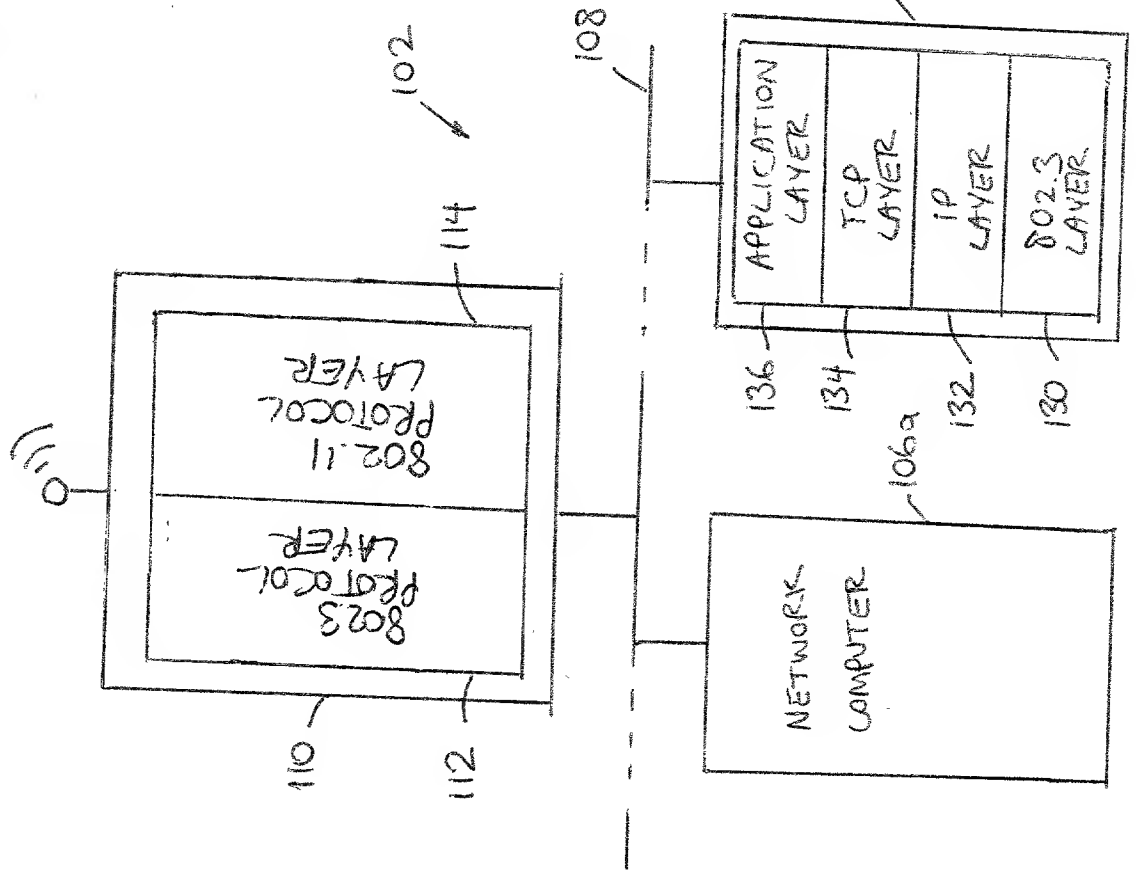


FIG. 1
(PRIOR ART)

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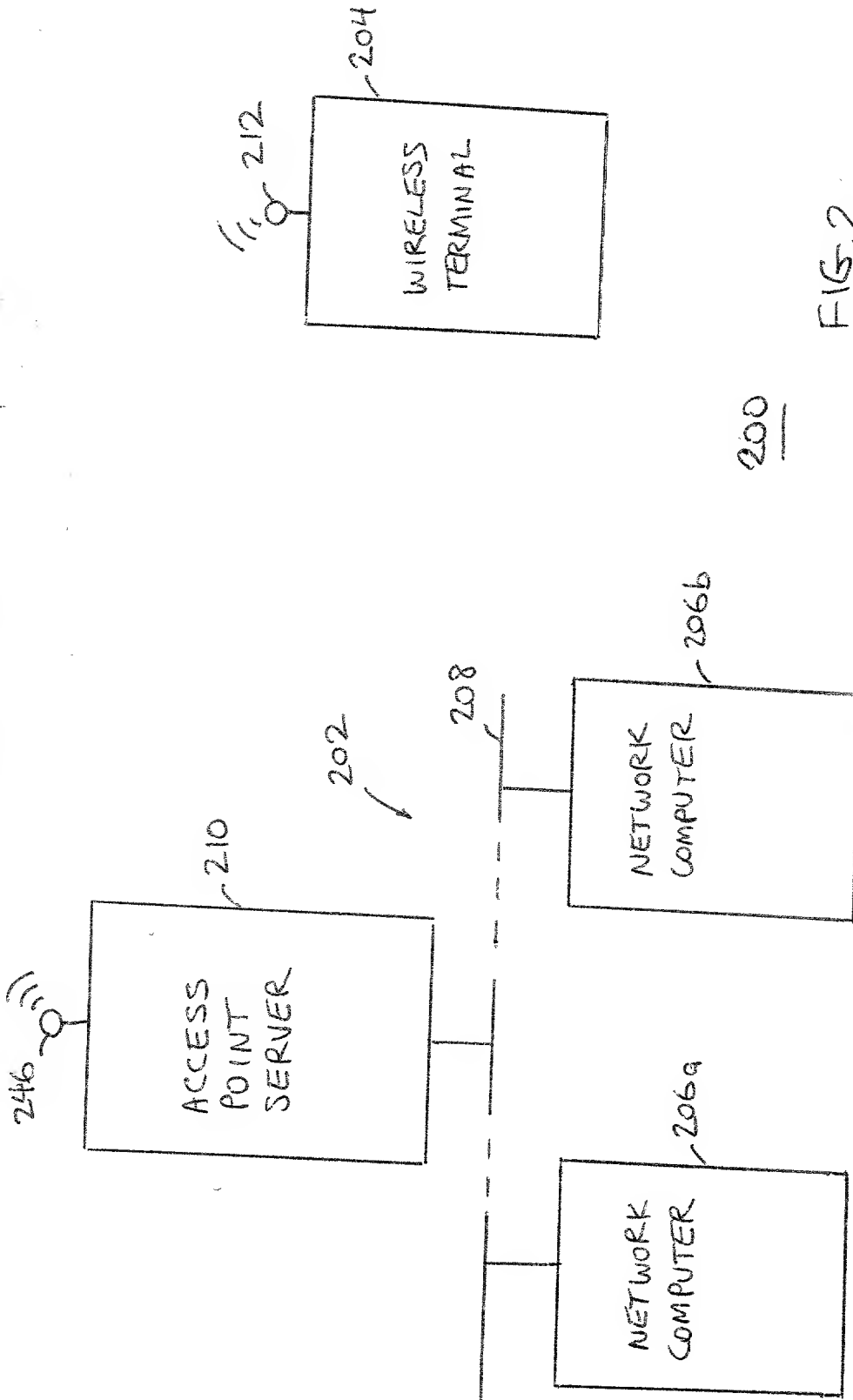


FIG. 2

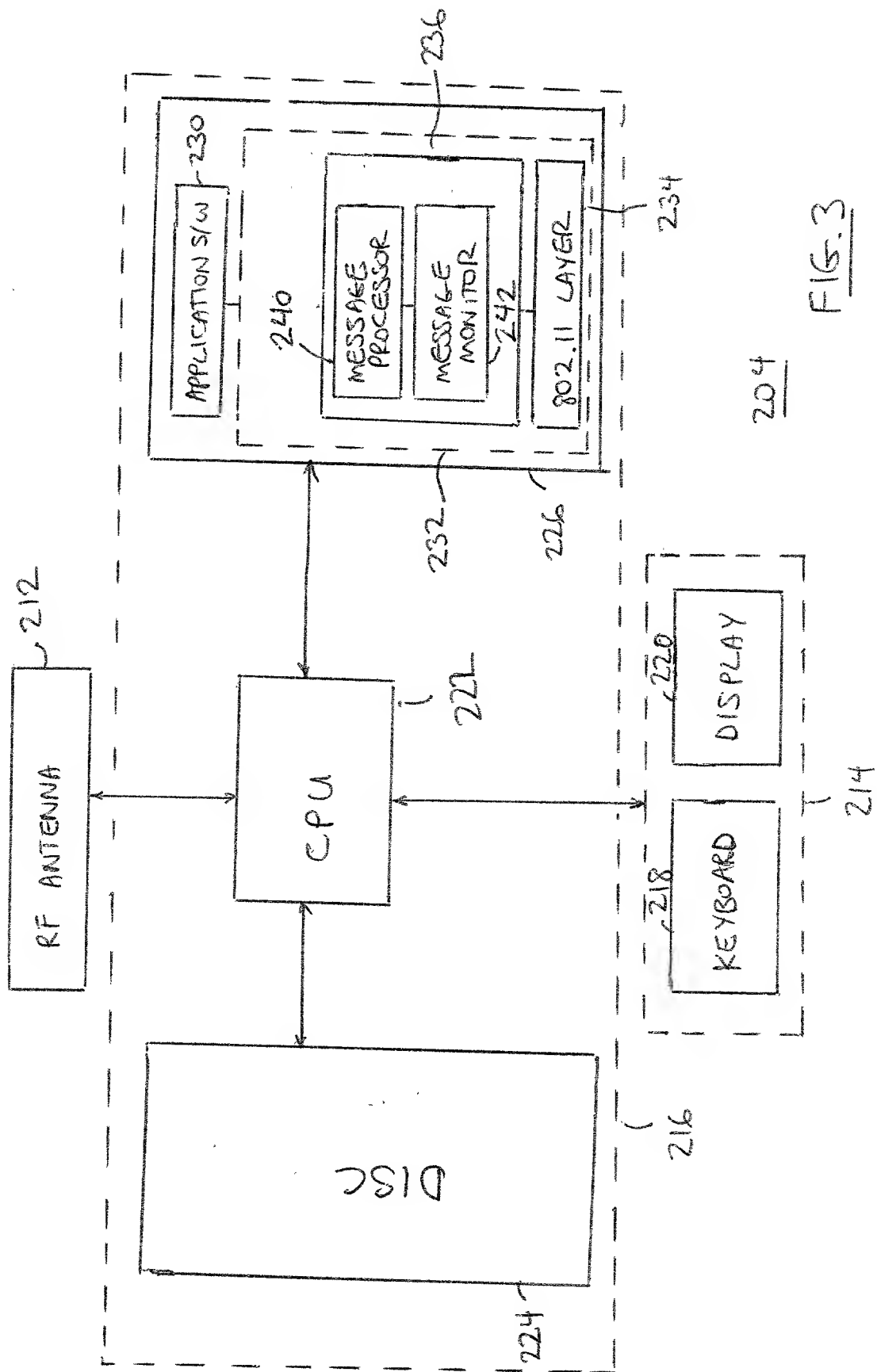


FIG. 3

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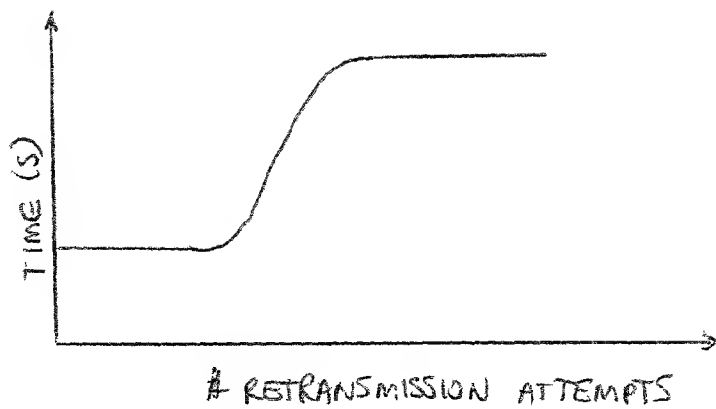


FIG. 4

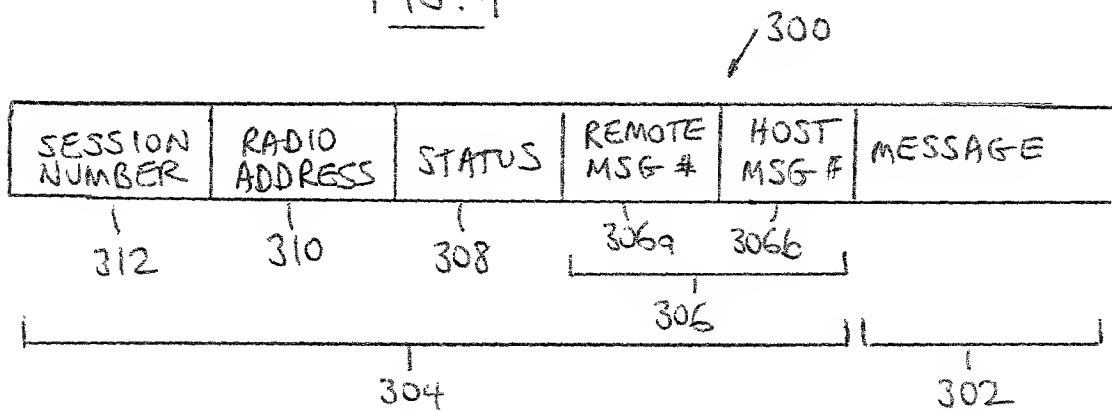


FIG. 7a

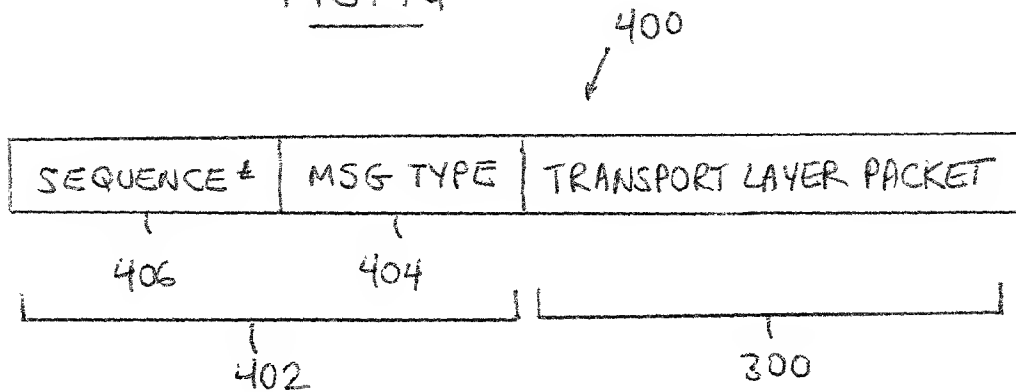


FIG. 7b

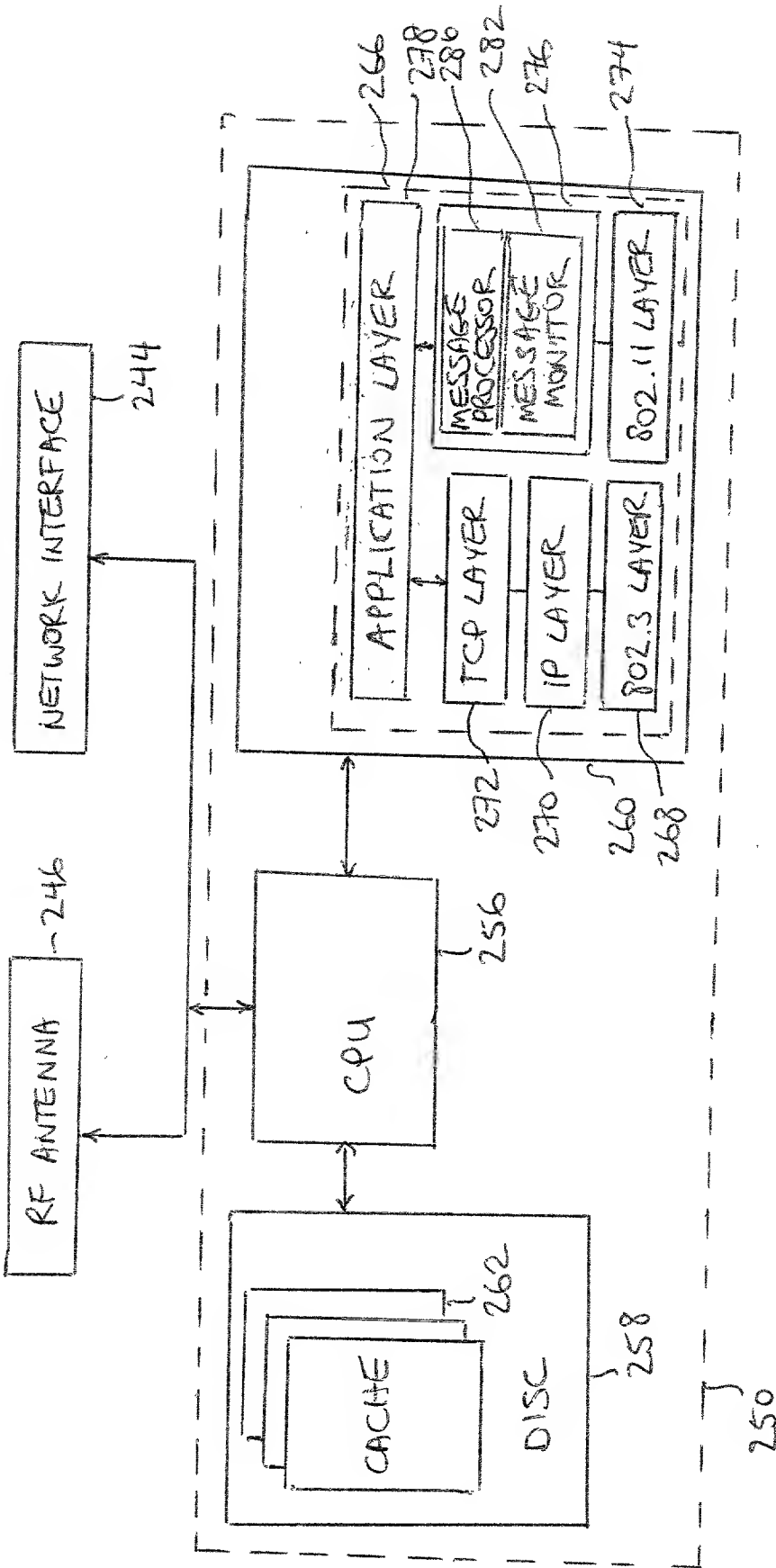


FIG. 5

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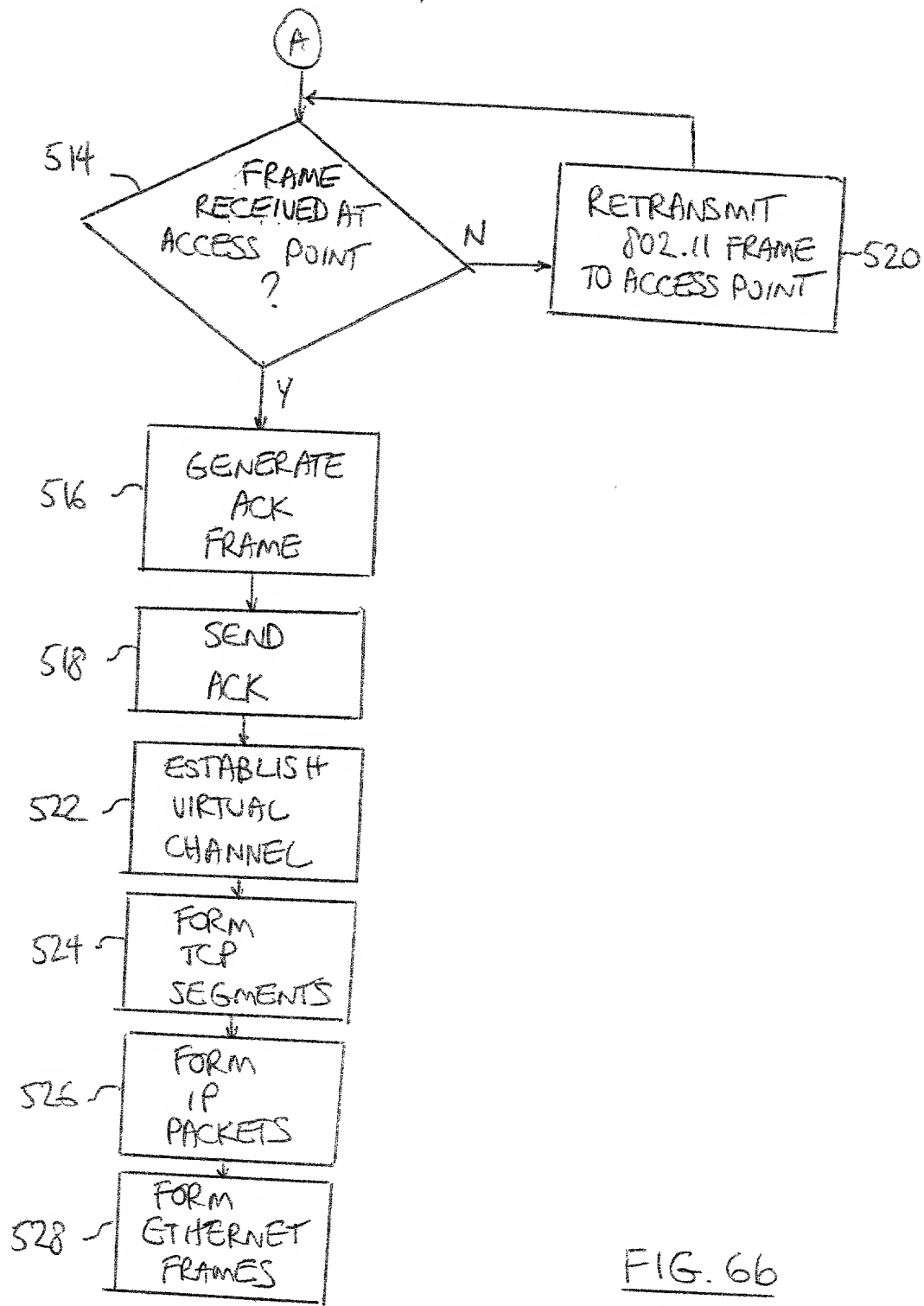


FIG. 66

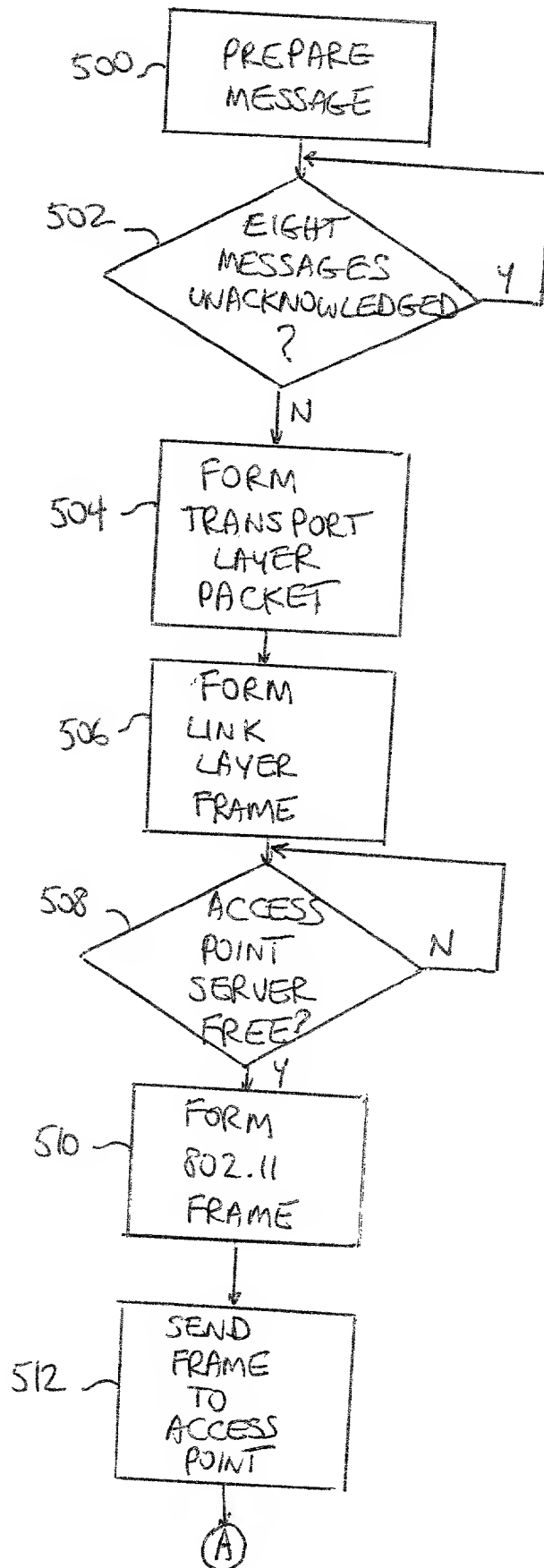


FIG. 69

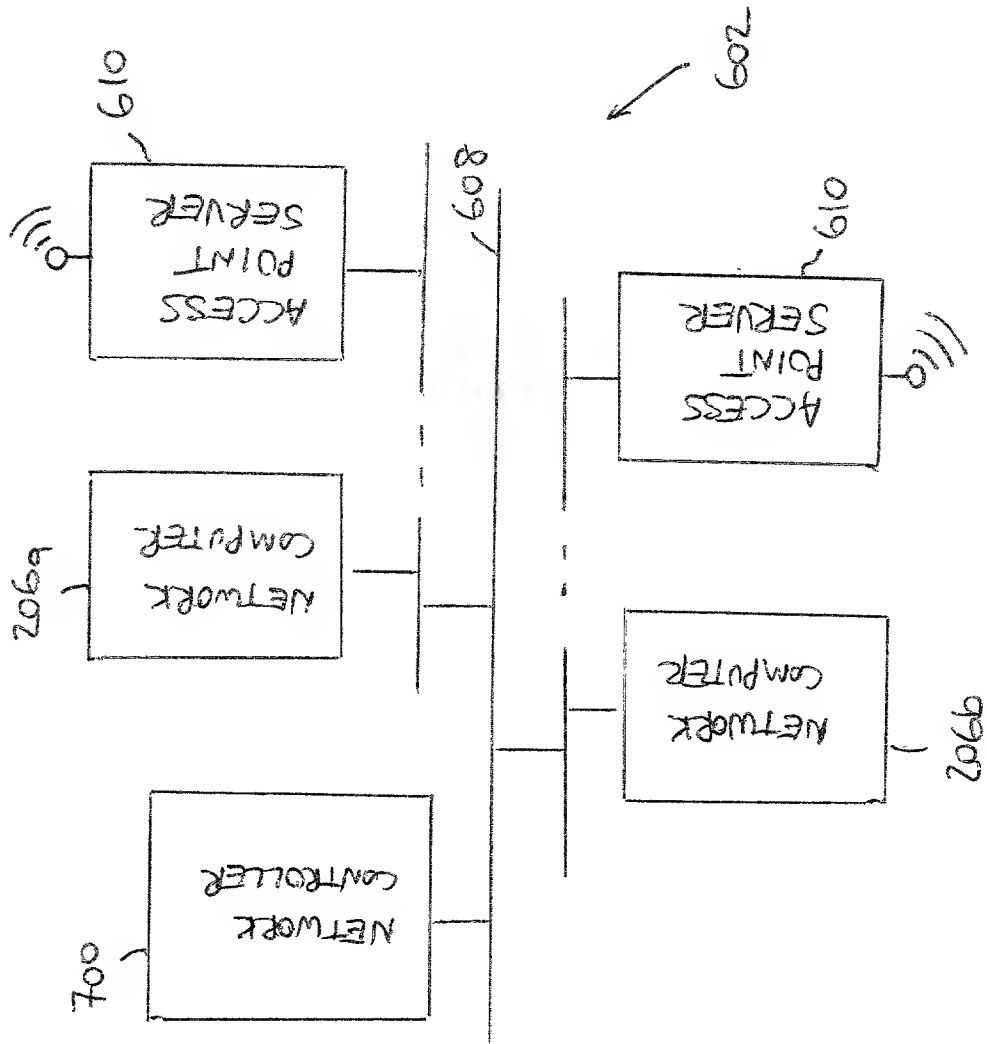


FIG. 8

FIG. 9 is a block diagram of a network interface system. The system includes an RF antenna (246) connected to a network interface (244). The network interface is connected to a CPU (656) and a disc (658). The CPU is connected to a network interface (660) which includes a TCP layer (672), an IP layer (670), a base station layer (678), a message monitor (682), an 802.3 layer (668), and an 802.11 layer (674).

244

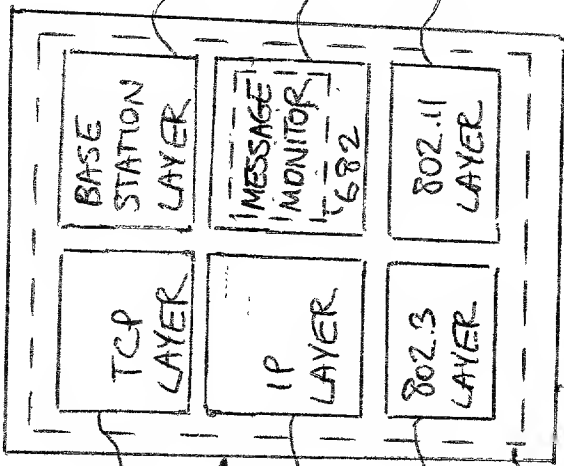
246

NETWORK INTERFACE

RF ANTENNA

CPU

DISC



9/10

FIG. 9

610

10/10

FIG. 10 is a block diagram of a network controller 744, a CPU 752, and a network interface 754, all connected to a network 750. The network controller 744 includes a message processor 776, a base station layer 774, a TCP layer 772, an IP layer 770, and an 802.3 layer 768. The CPU 752 is connected to the network controller 744 and the network interface 754. The network interface 754 includes an address cache 758.

744

NETWORK CONTROLLER

CPU

752

ADDRESS
CACHE

754

758

776

MESSAGE PROCESSOR

774

BASE
STATION
LAYER

772

TCP LAYER

770

IP LAYER

768

802.3 LAYER

756

766

750

700

FIG. 10